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MEMORANDUM FOR : Director of Central Intelligence A front

MARIECT

: CXCART Program Status

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- 1. This memorandum is for your information.
- 2. The OXCART program status was reviewed with Lockheed and Pratt and Whitney representatives on 14 November. aircraft are now in flight test status, one powered by two J-75 engines, the other by one J-75 and one J-58. Approximately 73 flight hours have been accumulated in 64 flights. Included are 13 flights totaling 10 1/2 hours with the J-58 engine. The highest speed reached so far is Mach 2.16 and highest altitude just under 60,000 ft.
- Each of the camera types, the navigation system, and other components have been installed and functionally checked in low speed flight. In order that significant further progress can be made in the total test program, it is necessary to achieve design speeds and altitudes as soon as possible. Our ability to do this rapidly has been severely compromised by two inter-related problems involving the J-58 engine.
- 4. These problems are first, the inability of Fratt and Whitney to deliver the minimum necessary number of engines in the next few months; and second, poor engine performance in terms of thrust and fuel consumption at altitude.
- In regard to engine deliveries we were promised at the end of September by Pratt and Whitney four engines in November and five in December. Now we have been told that only two engines can be expected in each of these two months. Although this means that Pratt and Whitney will have delivered nine engines instead of fourteen by the end of this year, two of the nine engines have been returned to Hartford for significant engineering changes, one other is being held for can-nibalizing of parts, and Lockheed is dubious of the use of another for flight test because of uncertainty of the engine 25X1 control. As of today we have two J-58 flight engines and one with questionable control to support two sircraft now at the test area. One other aircraft has been held from completion at Burbank for lack of engines.

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6. By the end of this year we wan flight test status. Two of these hich was decided a year ago when ear roblems arose. Including the one quill have then the barest minimum number three airplanes. This provides a engines to Lockheed for fitting to arly next year.	will have J-75 engines lier J-58 delivery estionable engine, we ber (six) engines for o spares for flight and
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Regarding engine performance: A revised afterburner has demonstrated improved thrust and fuel consumption on test engines. Parts for two engines for flight test are being shipped to the test area this week. duced cooling airflow to the turbine has also shown improved thrust and fuel consumption on test engines and this change is to be in delivery engine No. 12 and subsequent. By April of most year compressor and burner can modifications and a second revision to the afterburner should be incorporated into flight test engines. These changes have also improved thrust and fuel consumption on ground test engines. I have instructed Lockheed and Pratt and Whitney to supply their best estimates of airplane and engine performance as we know it now and as expected as these changes appear. The importance of reaching design flight conditions has been made known as forcefully as possible so that we can proceed with the entire program. Failure to approximate design performance, at least for limited periods before April, would seriously delay the entire test program.

> HERBERT SCOVILLE, JR. Deputy Director (Research)

cc: DDCI

Att: Cable

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